SH	F	FT	٠.	\sim	

FOR PTO-1449 TRADEMAR! (USE SEVERAL SHEETS IF NECESSARY)

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. OPTRES.026C2

APPLICATION NO. 10/759,699

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICANT Hoffman, et al.

FILING DATE January 19, 2004

GROUP

Unknown 2873

				U.S. PATENT DOCUMENTS			
EXAMINE!	3	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
Mill	1	3,758,201	09/11/73	MacNeille	351	232	
	2	4,239,329	12/16/80	Matsumoto	385	tı	
	3	4,534,649	08/13/85	Downs	356	495	_
	4	4,576,479	03/18/86	Downs	356	495	
	5	5,033,830	07/23/91	Jameson	359	484	
	6	5,537,260	07/16/96	Williamson	359	727	· · · · · · · · · · · · · · · · · · ·
	7	6,081,382	06/27/00	Omura	359	629	· · · · · · · · · · · · · · · · · · ·
	8	6,084,708	07/04/00	Schuster	359	494	
	9	6,137,626	10/24/00	Takaoka	359	386	
	10	6,172,380	01/09/01	Noguchi, et al.	257	64	
	11	6,195,213	02/27/01	Omura, et al.	359	727	
	12	6,201,634	03/13/01	Sakuma, et al.	359	322	
	13	6,252,712	06/26/01	Fürter, et al.	359	499	
<u> </u>	14	6,259,508	07/10/01	Shigematsu	355	53	
	15	6,324,003	11/27/01	Martin	359	494	
	16	6,455,862	09/24/02	van der Veen, et al.	250	4927	
	17	6,683,710	01/27/04	Hoffman, et al.	359	256	
	18	2001/0026006	10/04/02	Noble, et al.	257	627	
	19	2003/0011893	01/16/03	Shiraishi, et al.	359	726	
	20	2003/0021026	01/2003	Allan, et al.	359	499	,
	21	2003/0025894	02/2003	Owa, et al.	355	53	
	22	2003/0053036	03/20/03	Fujishima, et al.	355	5.3	
	23	2003/0058421	03/27/03	Omura, et al.	322	53	· .
	24	2003/0067679	04/10/03	Allan, et al.	359	356	
-	25	2003/0086071	 	McGuire, Jr.	355	71	
	26	2003/0086156	05/08/03	McGuire, Jr.	359		
1	27	2003/0086171	 	McGuire, Jr.	359	352	

EXAMINER

DATE CONSIDERED

04

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

MAR 2 5 2004

INFORMATION DISCLOSURE STATEMENT
BY APPLICANT
BY APPLICANT
Hoffman, et al.

FILING DATE
January 19, 2004

APPLICANT
HORAGEMAN GROUP
Unitarium 287 3

	U.S. PATENT DOCUMENTS								
	XAMINER INITIAL		DOCUMENT NUMBER	DATE	,	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
ı	M·H	28	2003/0168597	09/11/03	Webb, et al.		250	330	

					FOREIGN PATENT DOCUMENTS	•			
EXAMINER INITIAL		DOCUMENT NUMBER		DATE	DATE COUNTRY		SUBCLASS	TRANS	LATION
								YES	NO
Mi	H	29	EP 0 828 172	03/11/98	European Patent Office	_	_		
		30	JP 2000-331927	11/30/00	Japan	-	_		
		31	EP 1 063 684	12/27/00	European Patent Office	-	-		
		32	EP 1 115 019	07/11/01	European Patent Office	_	_	•	ļ .
		33	EP 1 139 138	10/04/01	European Patent Office	=	_		
] .		34	WO 02/093209	11/21/02	РСТ	. =			<u> </u>
01		35	WO 02/097508	12/05/02	PCT	-	_		
		36	WO 02/099500	12/12/02	РСТ	-	_	. 1	
		37	WO 03/001271	01/03/03	PCT	-			
	,	38	WO 03/009021	01/30/03	PCT (English abstract only)	_	_	,	
		39	WO 03/009050	01/30/03	РСТ		_		
	1	40	WO 03/009062	01/30/03	PCT (English abstract only)	-			

EXAMINER INITIAL		THE COUNTY OF THE PROPERTY OF THE PARTY OF T					
М	1 14	41	41	Rudolf Kingslake, Lens Design Fundamentals, 1978, pp. 320-321, Academic Press, Inc., San Diego, California			
		42	A. Hand, "157 nm Optics Demand a Bag of Tricks", Semiconductor International http://www.e-insite.net/semiconductor/index/asp?layout=article&stt (February 2001)				
		43	Shiraishi, et al., "Current Status of Nikon's Investigation on CaF ₂ Intrinsic Birefringence", International-SEMATECH . Calcium Fluoride Birefringence Workshop, July 18, 2001, pp. 1-15				
		44	Burnett, et al., "Intrinsic Birefringence in Calcium Fluoride", National Institute of Standards and Technology, Gaithersburg, Maryland 20899, submitted for publication to Physical Review Letters (May 11, 2001), pp. 1-12				
].		45	Burnett, et al., "Minimizing spatial-dispersion-induced birefringence in crystals for precision optics by using mixed crystals of materials with t opposite sign of the birefringence", National Institute of Standards and Technology, Gaithersburg, Maryland 20899, http://physics.nist.gov/Divisions/Div842/Gp3/DUVMatChar/birefring.nt (July 12, 2001 pp. 1-3				
1	/	$\overline{}$	U.S. Provisional Patent Application 60/306,206, filed July 18, 2001 which is a priority document for WO 03/009050				

		1_			
EXAMINER	CXX	Kesse	DATE CONSIDERED	5/22/0) U
EXAMINER: INITIAL IF ON CONFORMANCE AND	CITATION NOT CON	CONSIDERED, WHETHER OR NOT CITATION IS ISIDERED, INCLUDE COPY OF THIS FORM WIT	S IN CONFORMANCE WITH I H NEXT COMMUNICATION T	MPEP 609; DRAW LIN O APPLICANT.	IÉ THROUGH CITATION IF NOT

SHEET 3 OF 3	

O 1 P & FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE	ATTY, DOCKET NO.	APPLICATION NO.
PATENT AND TRADEMARK OFFICE	OPTRES.026C2	10/759,699
MAR 2 5 2004 INRORMATION DISCLOSURE STATEMENT		<u> </u>
BY APPLICANT	APPLICANT Hoffman, et al.	
RADEMAST (USE SEVERAL SHEETS IF NECESSARY)	FILING DATE January 19, 2004	GROUP Unknown 2873

EXAMI INITI			OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
WH		47	U.S. Provisional Patent Application 60/308,844, filed August 1, 2001 (Japanese Language)
		48	English translation of Provisional Application No. 60/308,844, filed August 1, 2001 (filed in USPTO on October 23, 2002)
		49	Burnett, et al., "Intrinsic birefringence in calcium fluoride and barium fluoride", Physical Review B, Vol. 64, May 14, 2001, pp. 241102-1-241102-4
		50	Burnett, et al., "Intrinsic Birefringence in 157 nm Materials", Proceedings of the International Symposium on 157NM Lithography, Dana Point, CA, May 15, 2001, XP002218849, pp. 1-13
		51	Burnett, et al., "Intrinsic Birefringence in 157 nm Materials", Proc 2 nd , Intl. Sump on 157 nm Lithography, 2001, pp. 1-13, International SEMATECH, Austin, Texas
		52	Burnett, et al., "Intrinsic Birefringence in Calcium Fluoride", preprinted handed out at 2 nd International Symposium on 157NM Lithography, Dana Point, CA, May 15, 2001, XP002232195, pp. 1-17
		53	D. Krähmer, "Intrinsic Birefrinence in CaF2" at CaF2 Birefringence Workshol, Intl SEMATECH, July 18, 2001, pp. 1-9
		54	Morton, et al., "Testing Optical Damage for 157 nm Lithography", Semiconductor International, http://www.e-insite.net/semiconductor/index.asp?layout=article&stt (February 2002)
	·	55	Burnett, et al., "Alternative Materials Development (LITJ216) Final Report - Stress Birefringence, Intrinsic Birefringence, and Index Properties of 157 nm Refractive Materials", International SEMATECH, February 28, 2002, 3: pages
			J. Dyson, "Unit magnification optical system without Seidel aberrations," J. Opt. Soc. Am., Vol. 49, 1959, p. 713 as described by R. Kingslake, "Lens Design Fundamentals," Institute of Optics, University of Rochester, Academic Press Inc., 1978, pp. 320-321
•		57	Yeh, et al., "Optics of Liquid Crystal Displays", John Wiley & Sons, Inc., New York, 1999, pp. 380-385
		58	U.S. Patent Application 10/178,601, filed June 20, 2002 (OPTRES.002A)
		59	U.S. Patent Application 10,178,937, filed June 20, 2002 (OPTRES.003A)
		60	U.S. Patent Application 10/178,621, filed June 20, 2002 (OPTRES.004A)
		61	U.S. Patent Application 10/178,935, filed June 20, 2002 (OPTRES.006A)
		62	U.S. Patent Application 10/331,159, filed December 26, 2002 (OPTRES.007A)
		63	U.S. Patent Application 10/331,101, filed December 26, 2002 (OPTRES.012A)
		64	U.S. Patent Application 10/331,103, filed December 26, 2002 (OPTRES.013A)
		65	U.S. Patent Application 10/371,266, filed February 20, 2003 (OPTRES.026C1)
1		_	U.S. Patent Application 10/371,269, filed February 20, 2003 (OPTRES.026DV1)

H:\DOCS\MJG\MJG-5836.DOC:ad 031904

				•
EXAMINER	Lucyen	DATE CONSIDERED	5/22/	04
*EXAMINER: INITIAL IF CITATION COIN CONFORMANCE AND NOT CONS	ONSIDERED, WHETHER OR NOT CITATION IS SIDERED, INCLUDE COPY OF THIS FORM WIT	S IN CONFORMANCE WITH MP	EP 609; DRAV	V LINE THROUGH CITATION IF NOT